



FIG. 1A

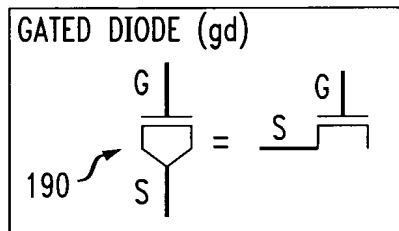


FIG. 1B

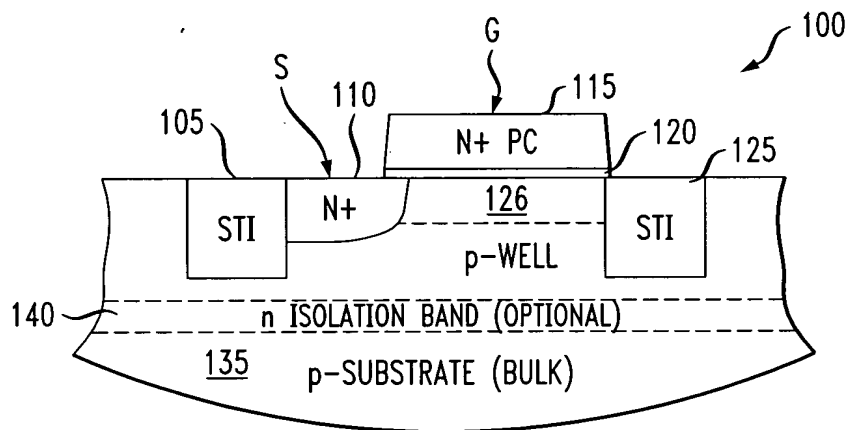


FIG. 2A

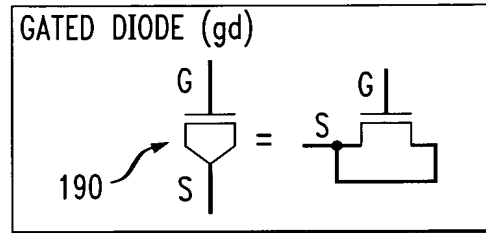


FIG. 2B

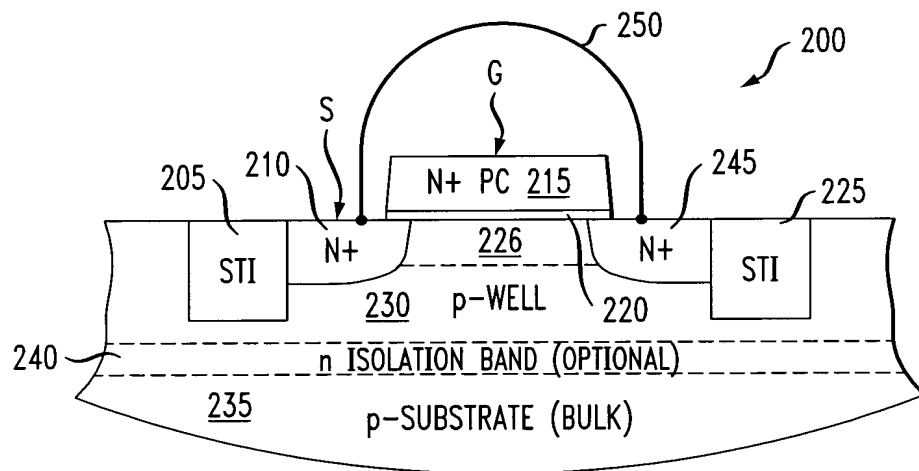


FIG. 3A

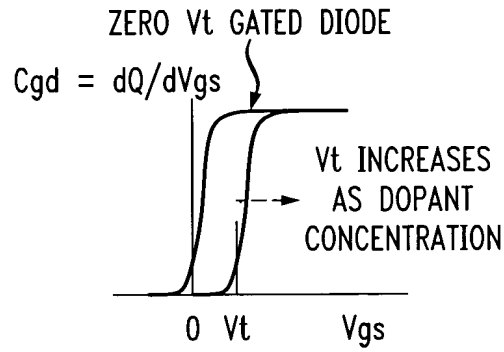


FIG. 3B

GATED DIODE CAPACITANCE vs GATE-TO-SOURCE VOLTAGE (V_{gs})
EACH CURVE REPRESENTS A DIFFERENT GATED DIODE GATE SIZE.
THRESHOLD VOLTAGE = 0.2 V

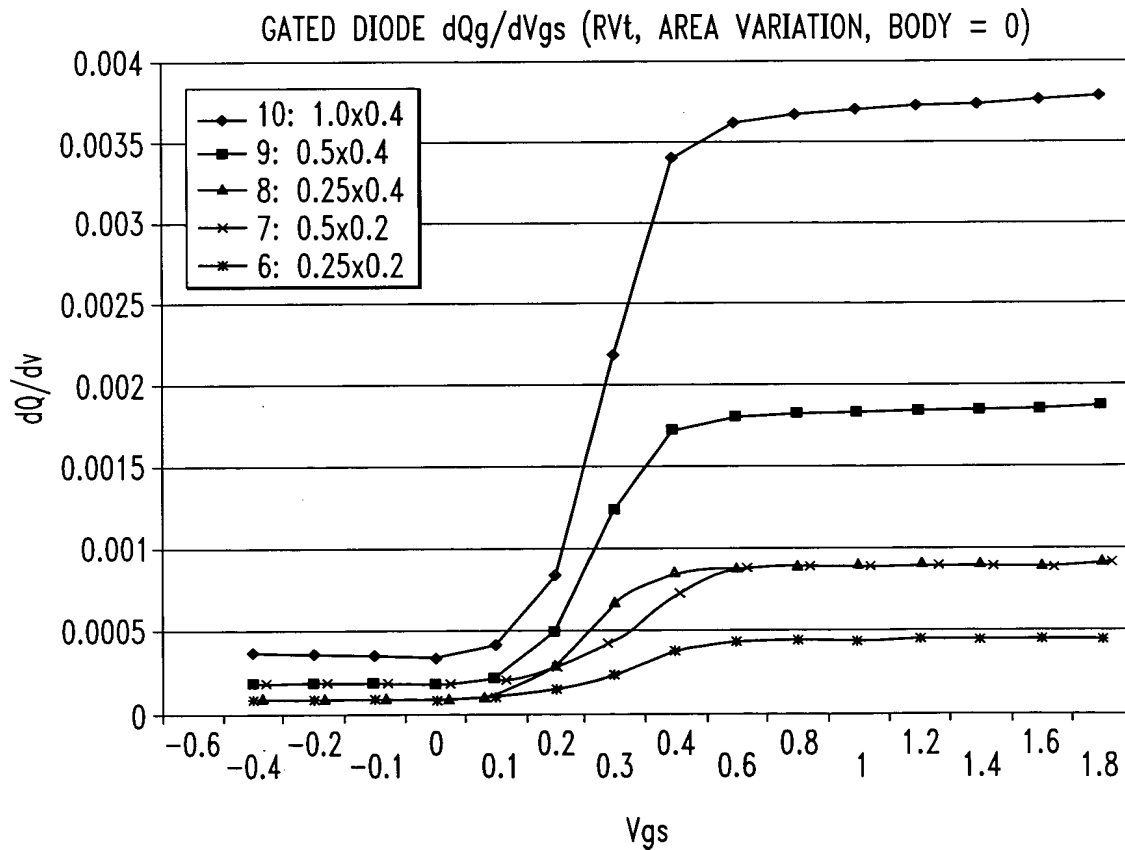


FIG. 4A

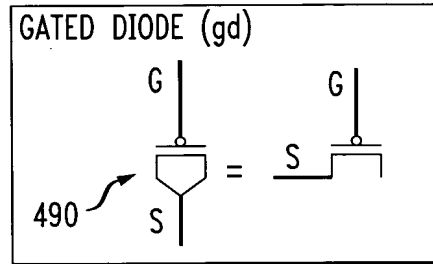


FIG. 4B

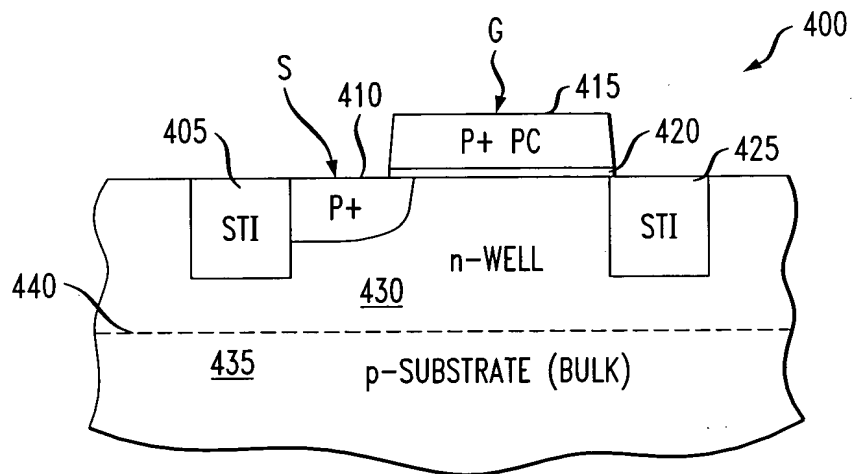


FIG. 5A

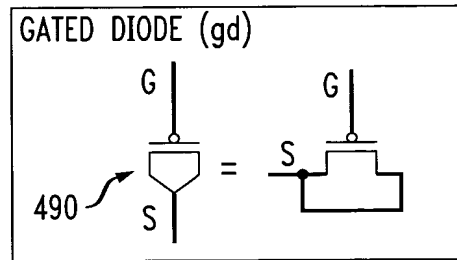


FIG. 5B

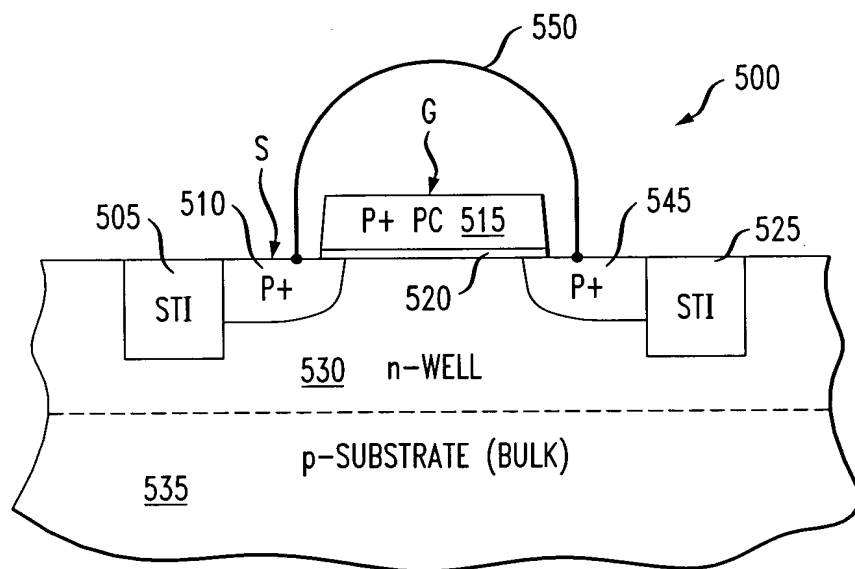


FIG. 6

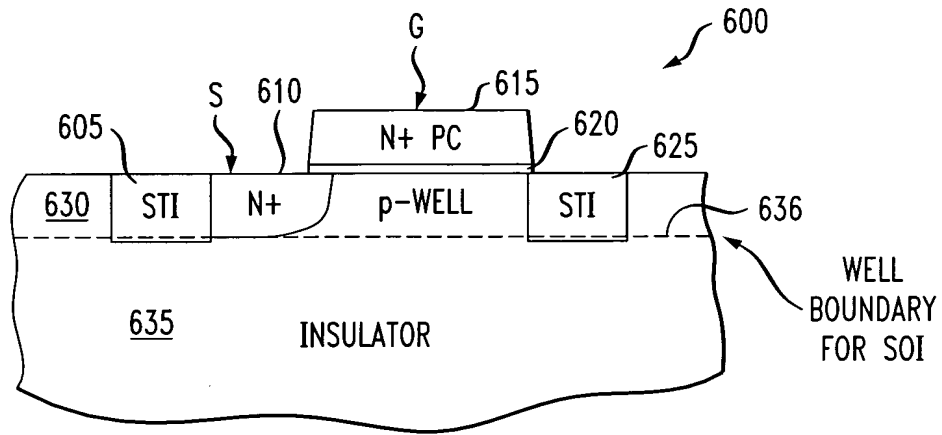


FIG. 7

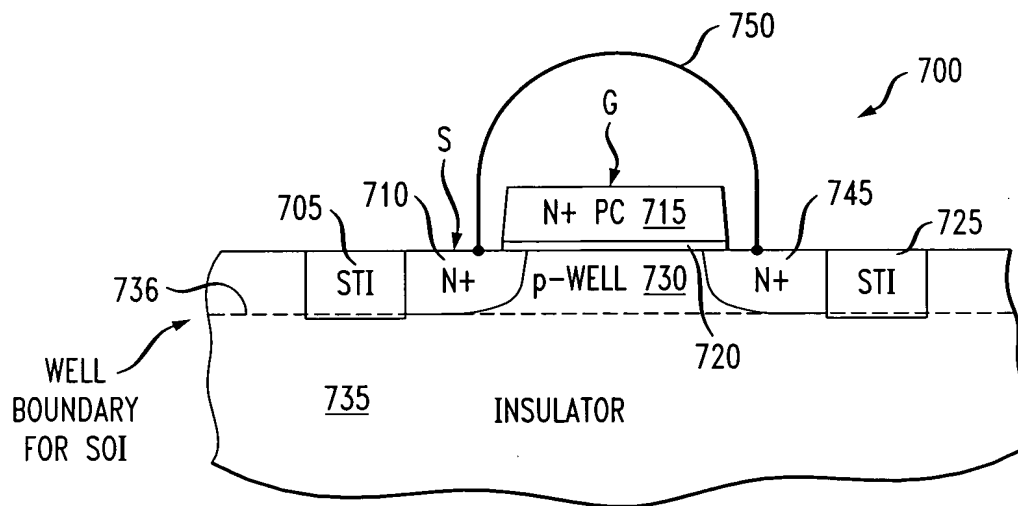


FIG. 8

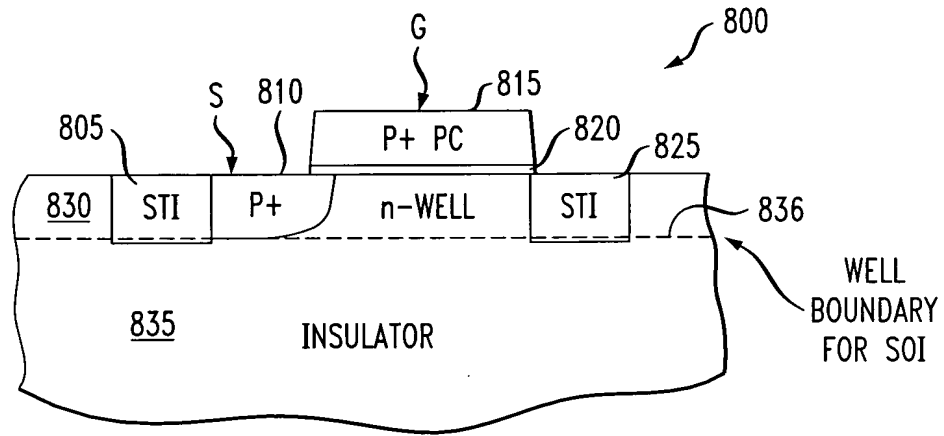


FIG. 9

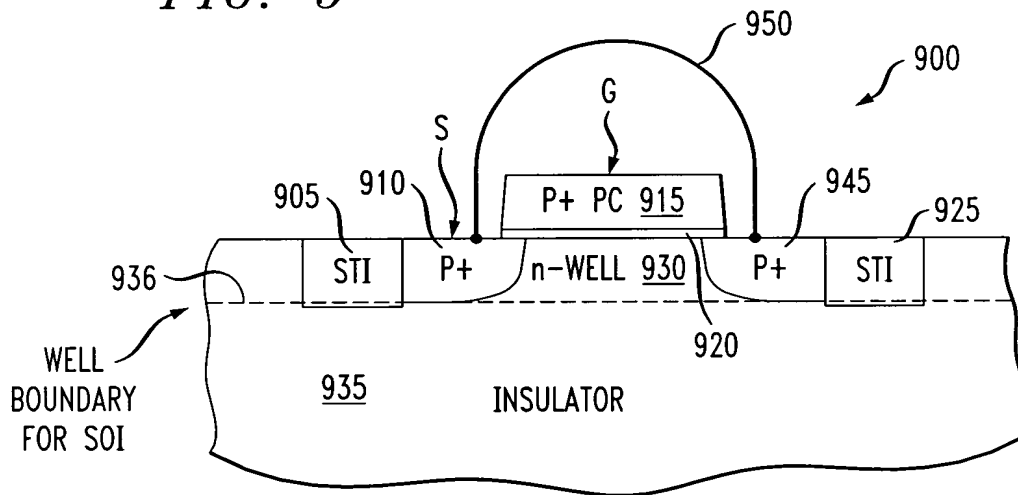


FIG. 10

LINEAR CAPACITOR
GAIN = $dV_{out}/dV_{in} = 1$

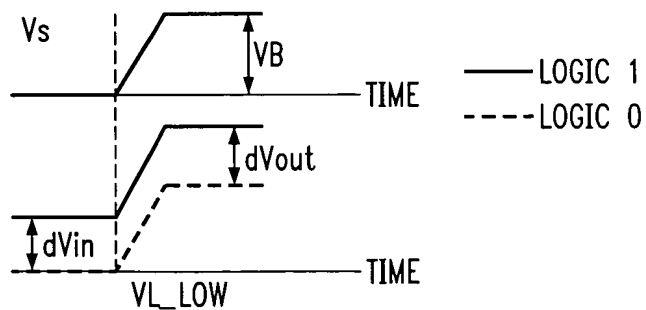


FIG. 11A

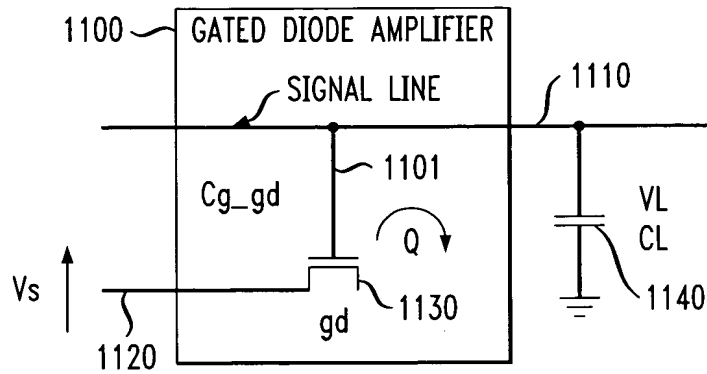


FIG. 11B

GATED DIODE AMPLIFIER REPRESENTATIVE CIRCUIT

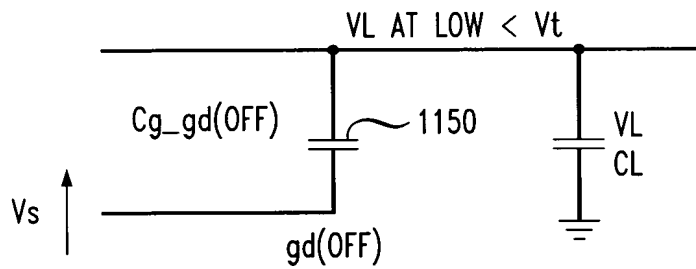


FIG. 11C

GATED DIODE AMPLIFIER REPRESENTATIVE CIRCUIT

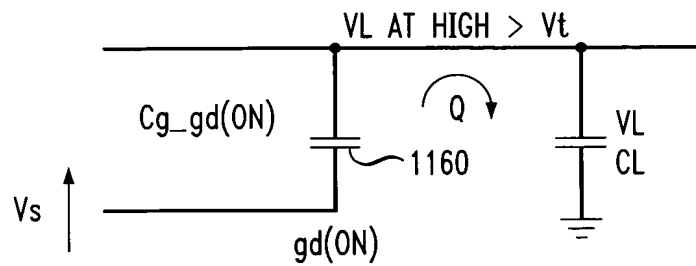


FIG. 12A

GATED DIODE

$$\text{GAIN} = dV_{\text{out}}/dV_{\text{in}} > 1$$

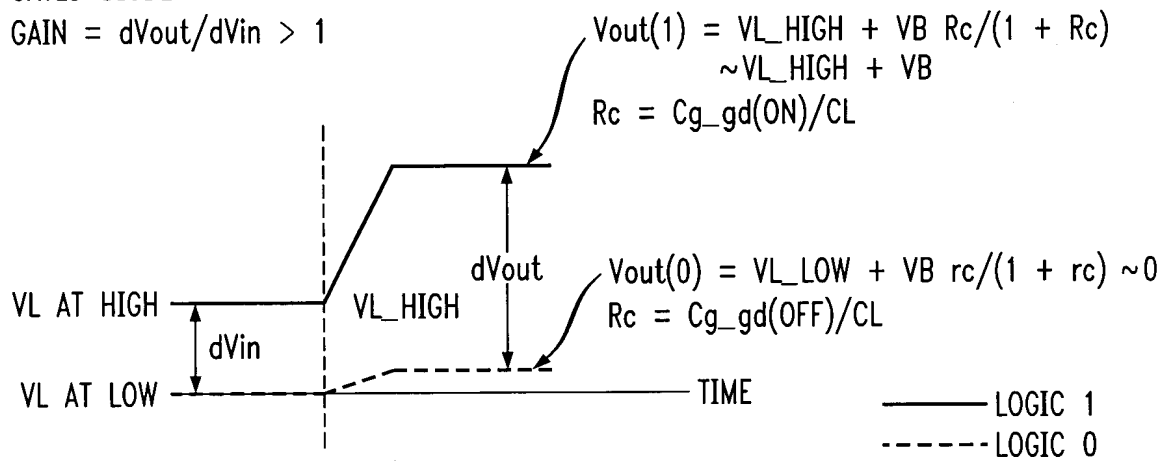


FIG. 12B

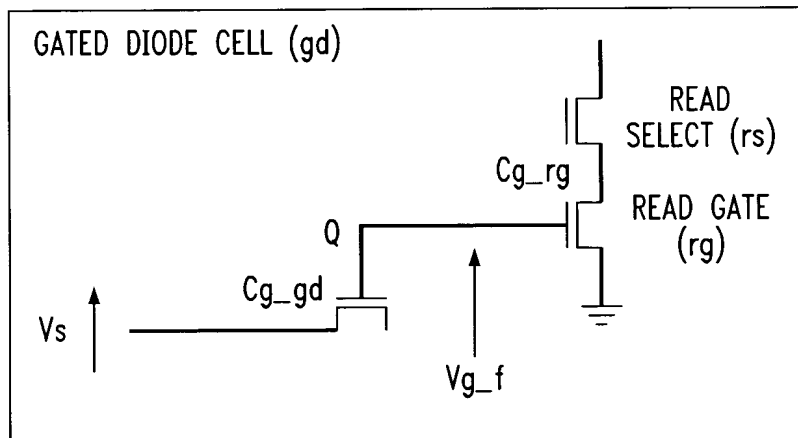


FIG. 12C

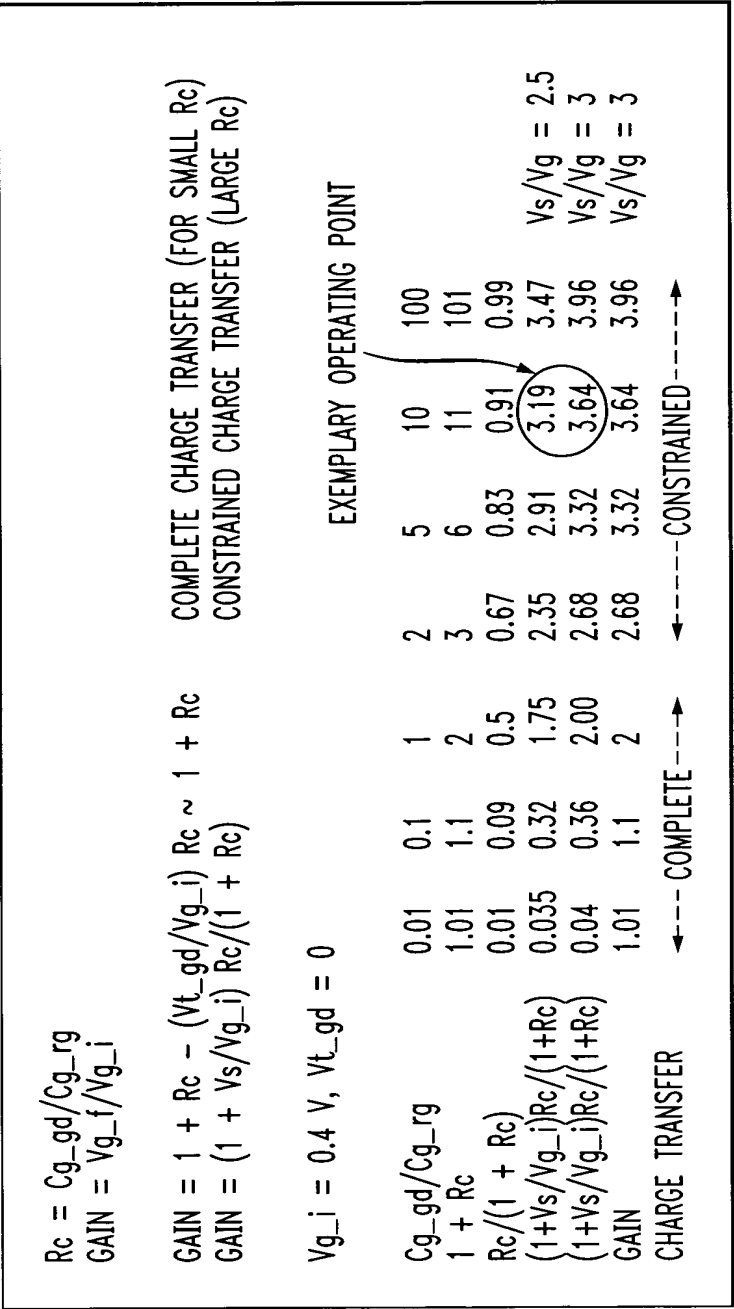


FIG. 12D

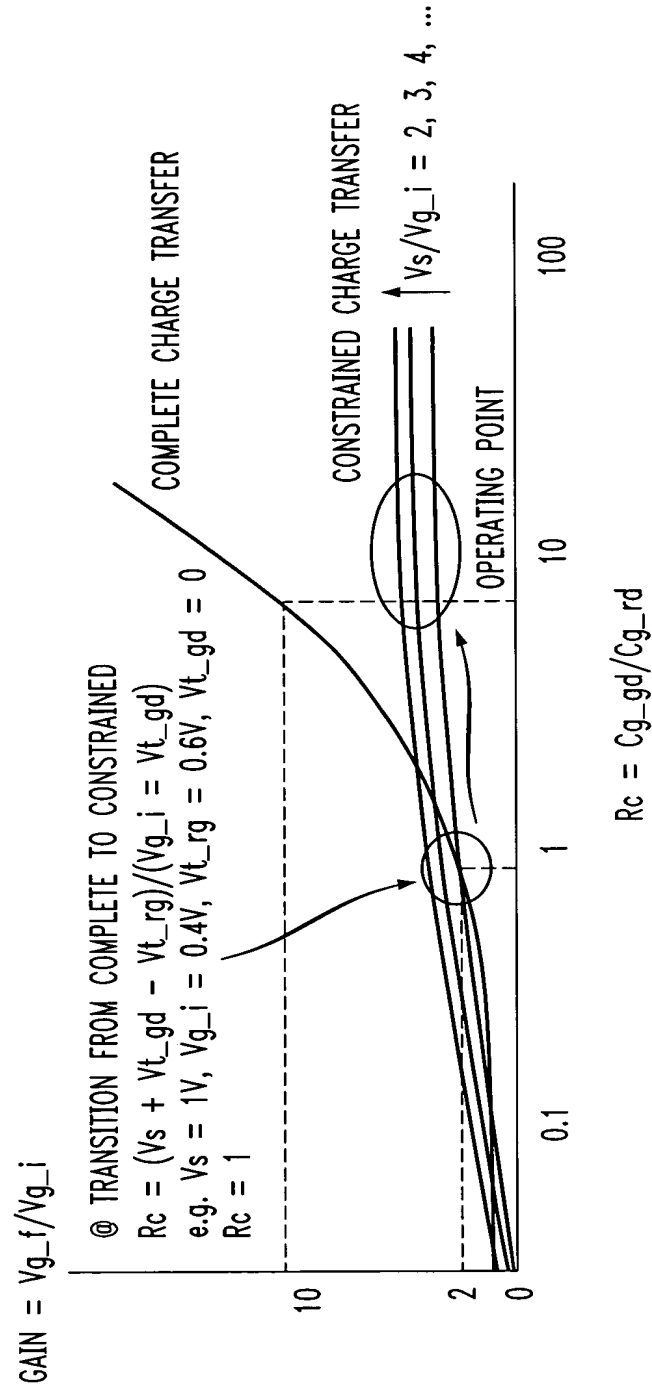


FIG. 13

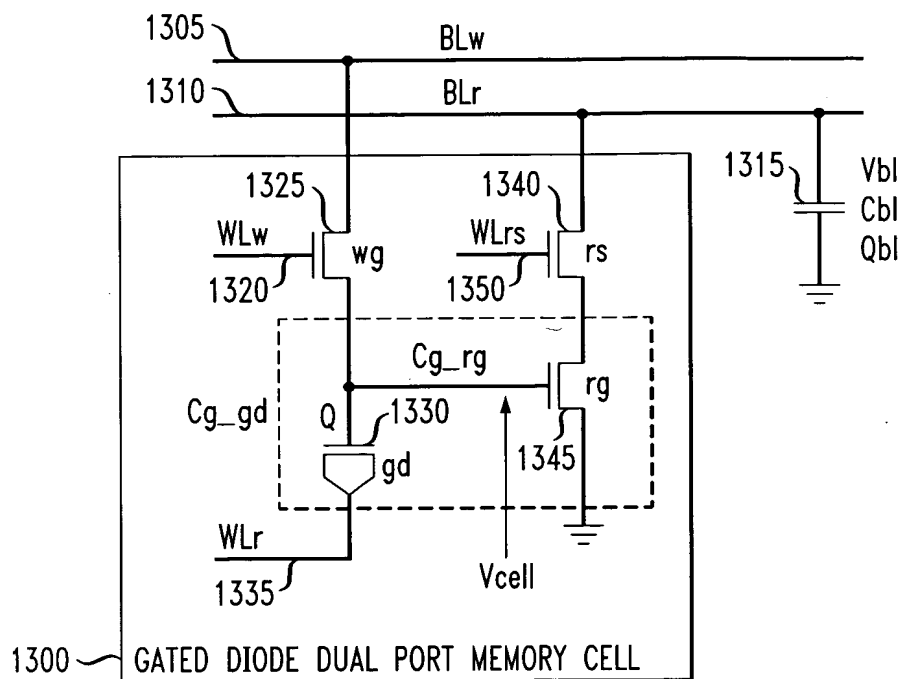


FIG. 14

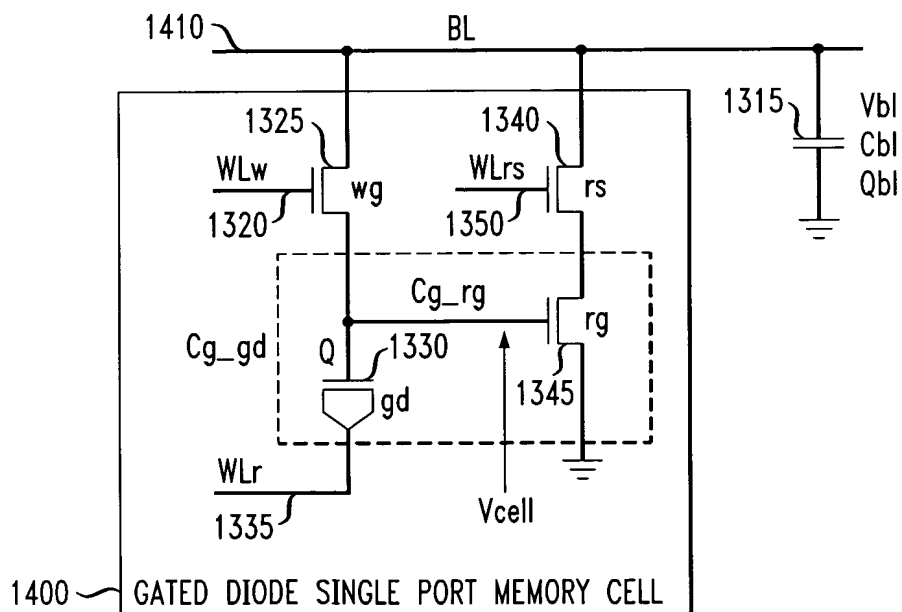


FIG. 15

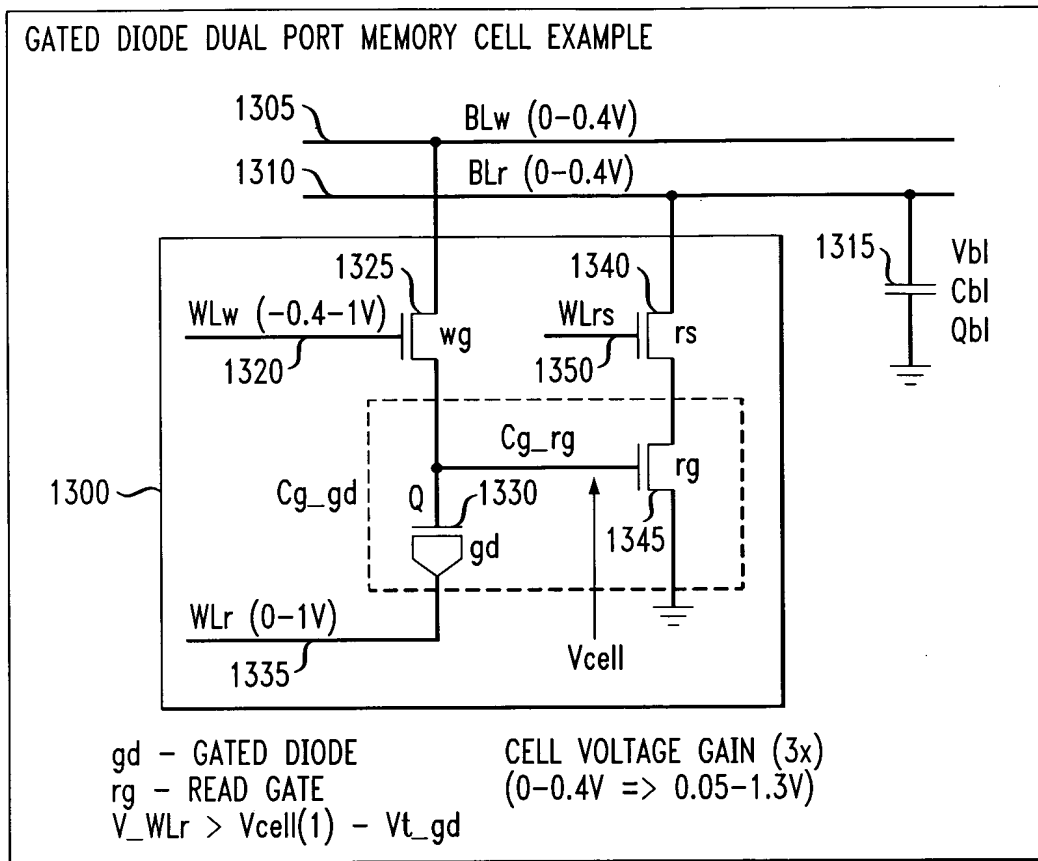


FIG. 16

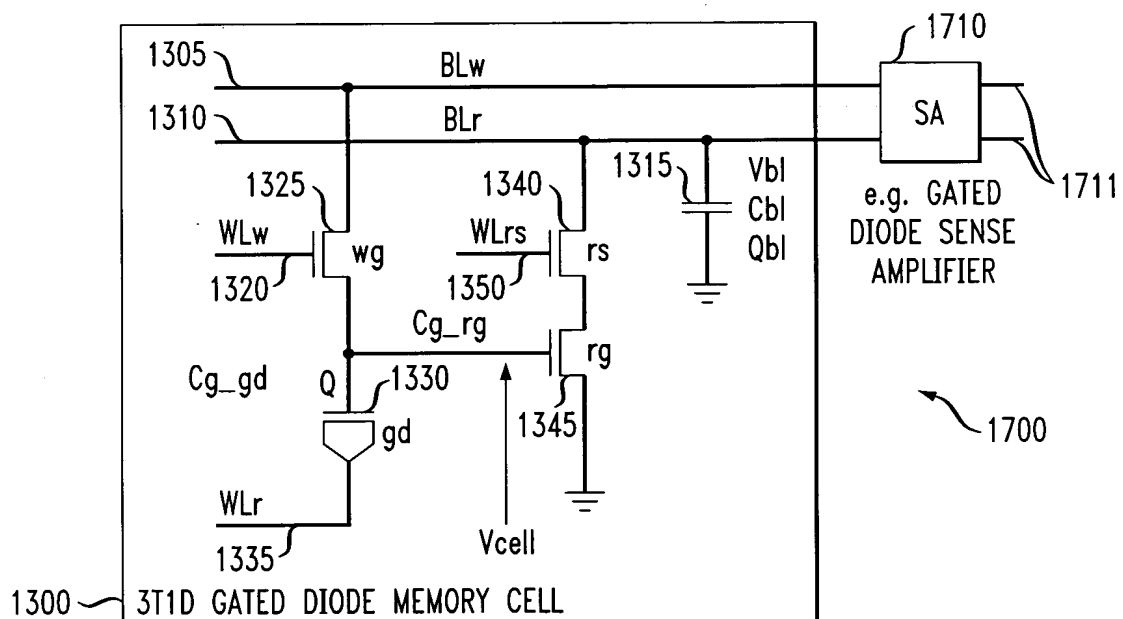


FIG. 17

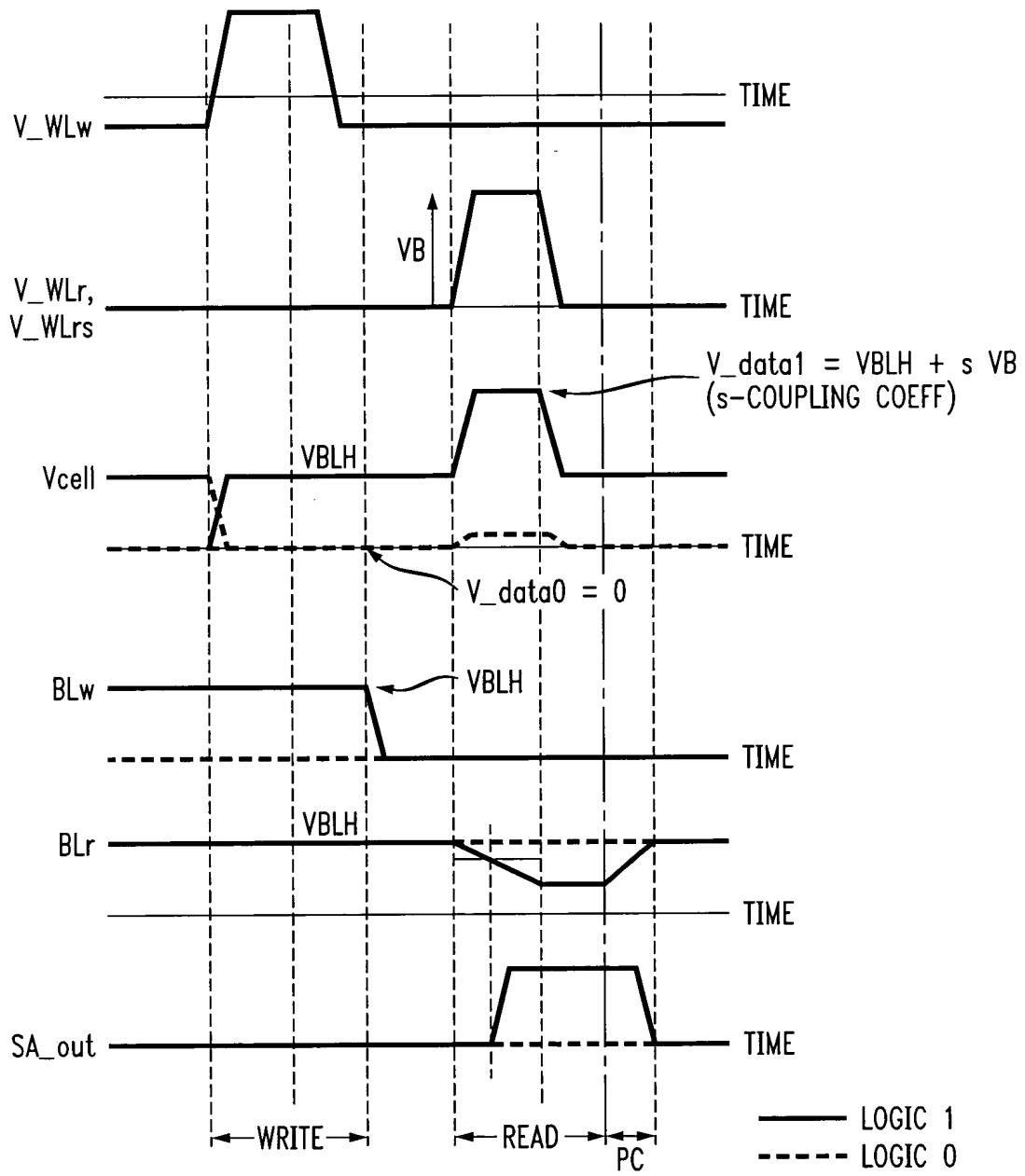


FIG. 18

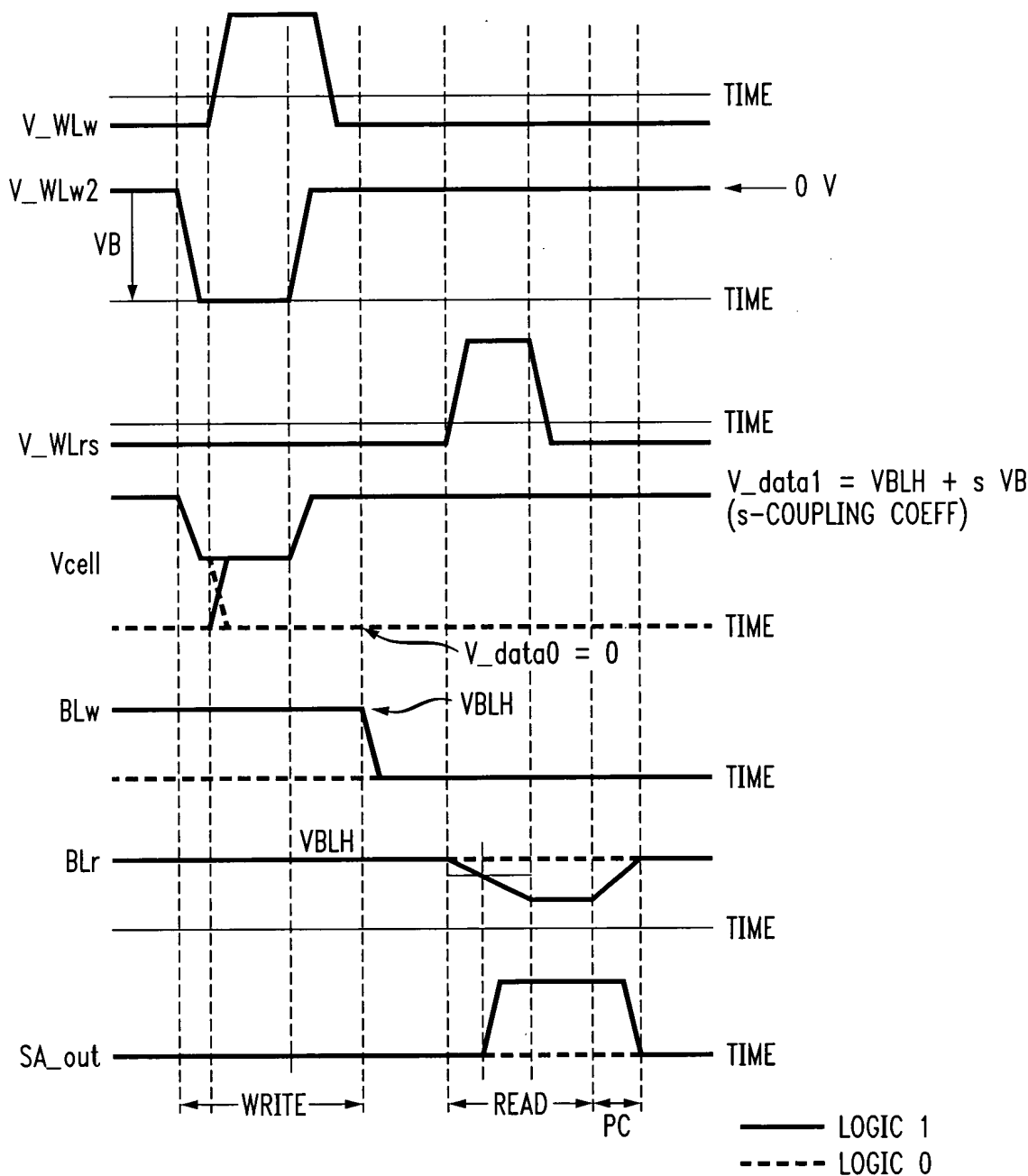


FIG. 20

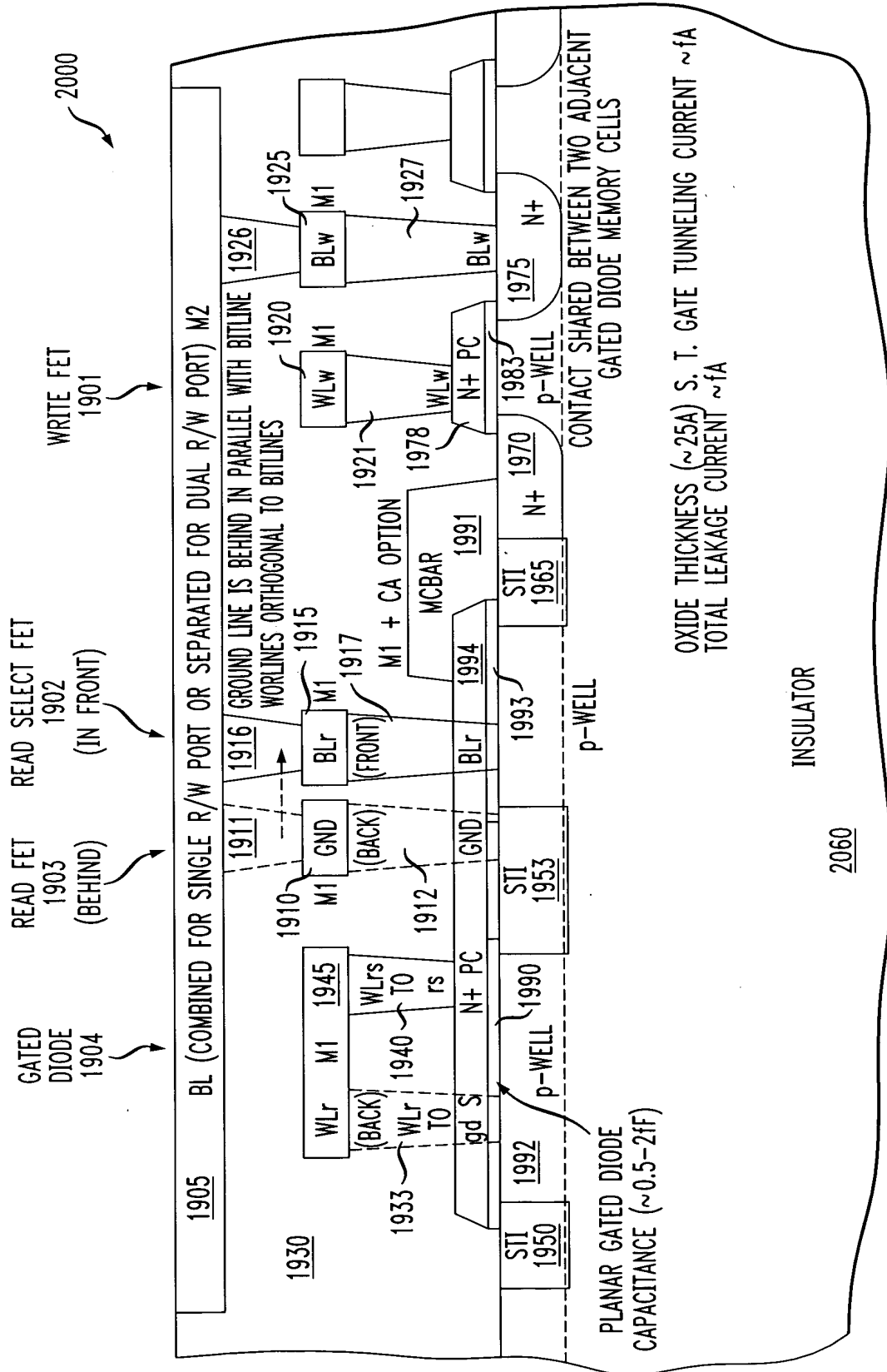


FIG. 21

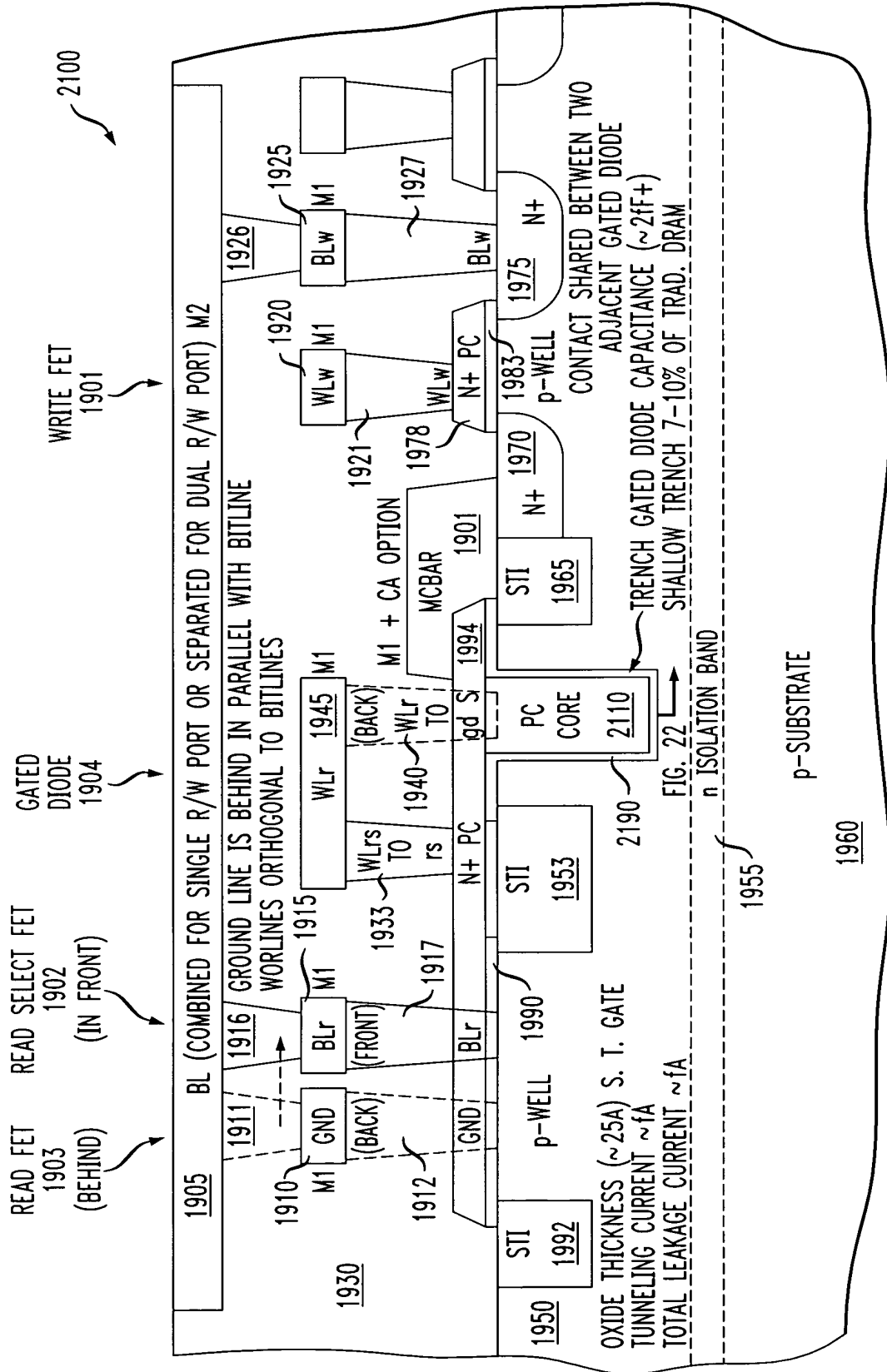


FIG. 22

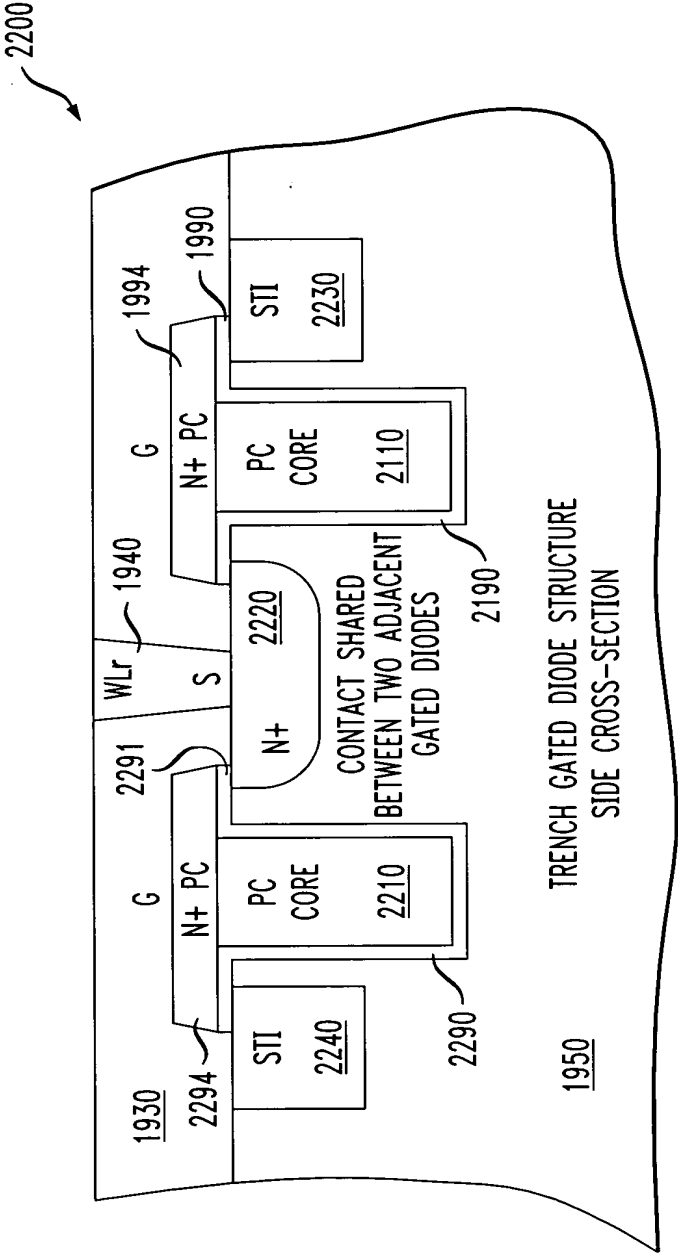


FIG. 23

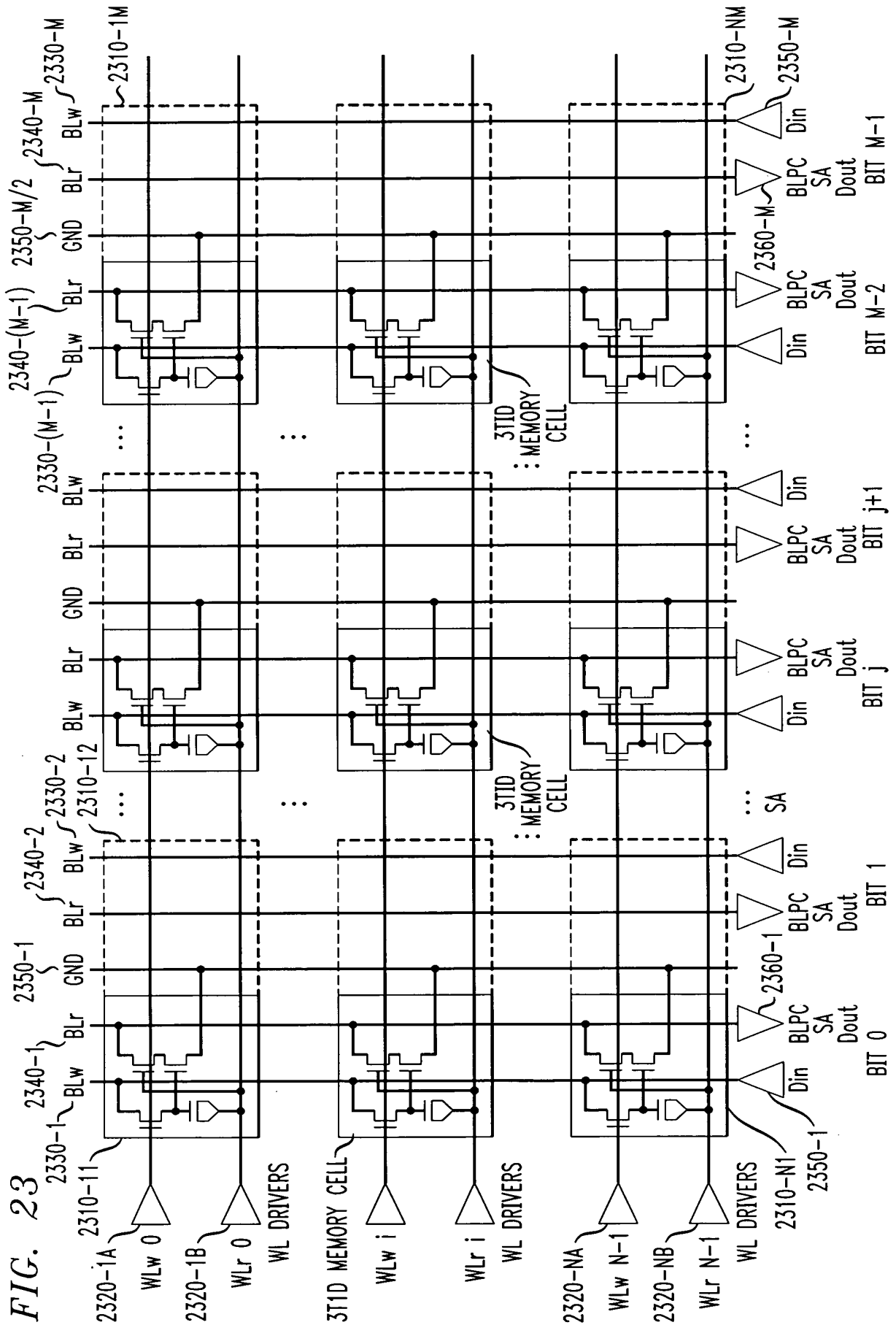


FIG. 24

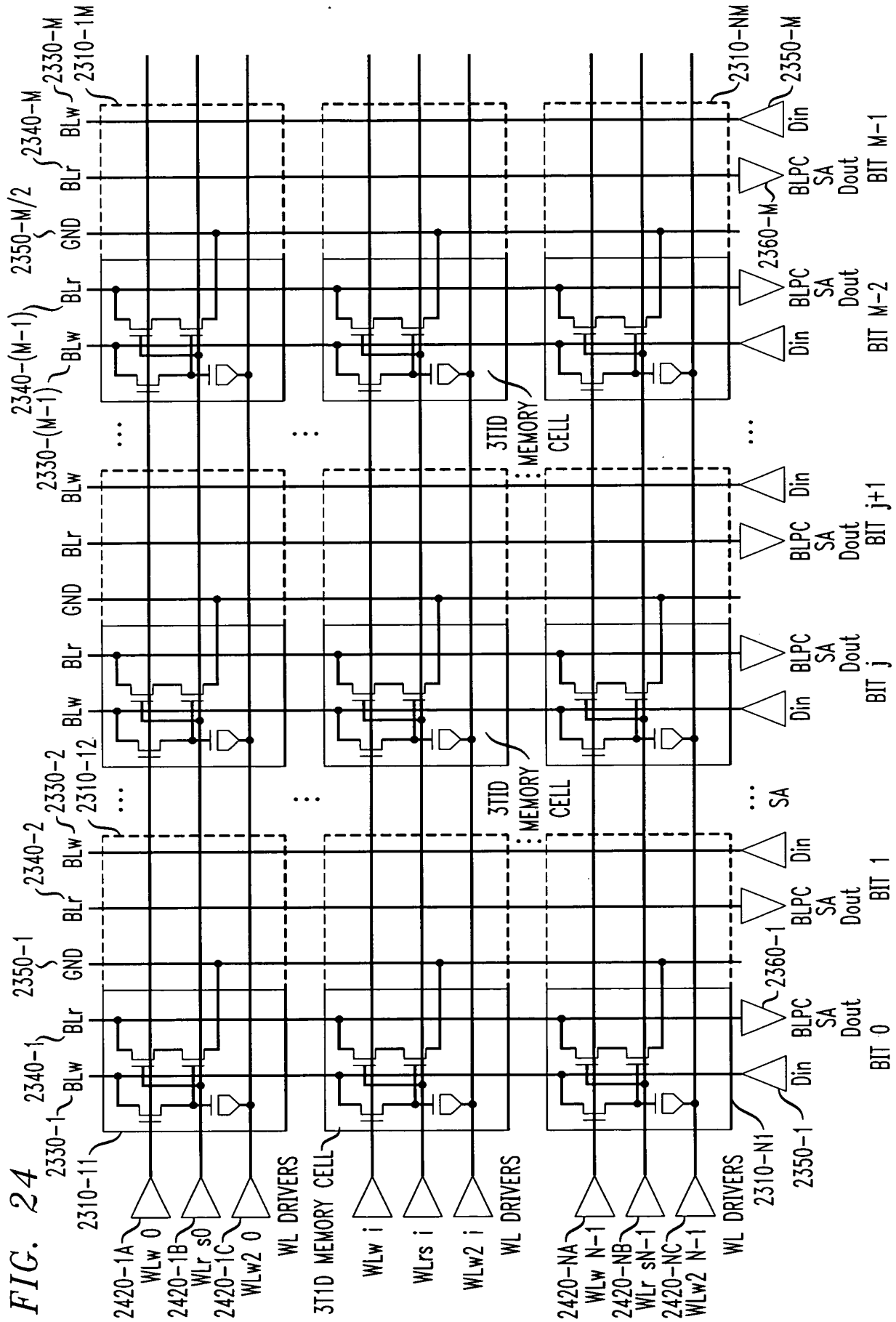


FIG. 25

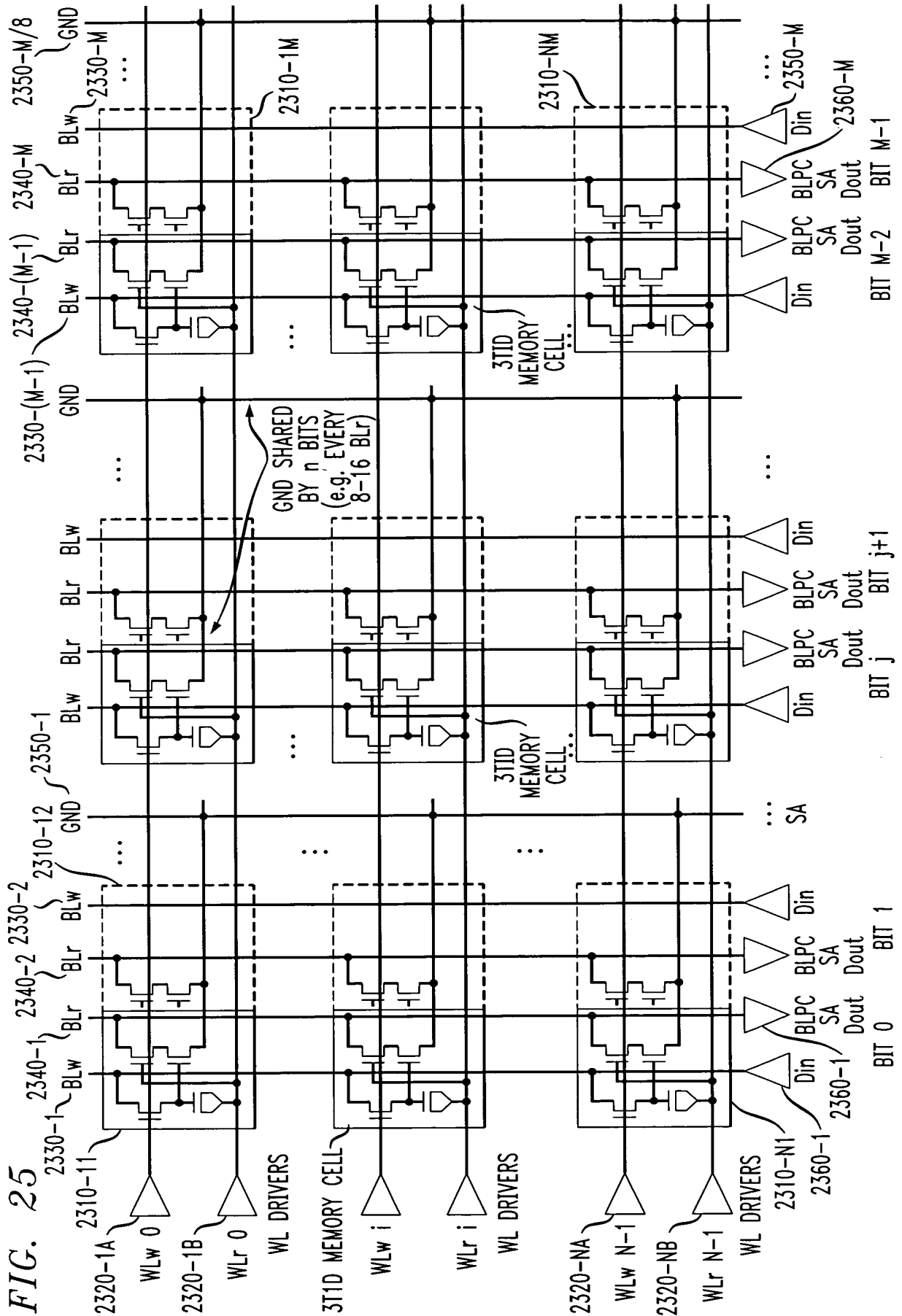


FIG. 26

